



US 20030020964A1

(19) **United States**(12) **Patent Application Publication**  
**Baertsch et al.**(10) **Pub. No.: US 2003/0020964 A1**(43) **Pub. Date: Jan. 30, 2003**(54) **DETECTOR FRAMING NODE  
ARCHITECTURE TO COMMUNICATE  
IMAGE DATA**

(22) Filed: Jan. 31, 2001

**Publication Classification**(75) Inventors: **Richard Dudley Baertsch**, Scotia, NY (US); **Walter Vincent Dixon**, Delanson, NY (US); **Daniel Arthur Staver**, Scotia, NY (US); **Nick Andrew Van Stralen**, Ballston Lake, NY (US); **Robert Gideon Wodnicki**, Schenectady, NY (US)(51) **Int. Cl.<sup>7</sup>** ..... H04N 1/36; G06K 9/00(52) **U.S. Cl.** ..... 358/409; 378/28(57) **ABSTRACT**

A detector framing node controls generation of radiation and radioscopic image detection. Radioscopic image data is acquired and communicated independently of a host computer operating system. The detector framing node controls events in real time according to an event instruction sequence and receives the image data by way of an image detection interface into a memory unit. The image data is output from the memory unit to host memory of the host computer through a computer communication interface and under the control of a control unit. The detector framing node selects a flat panel detector from a plurality of different flat panel detectors and the image data is selectively reordered according to parameters of the selected flat panel detector before communication to host memory.

Correspondence Address:  
**GENERAL ELECTRIC COMPANY**  
**CRD PATENT DOCKET ROOM 4A59**  
**P O BOX 8**  
**BUILDING K 1 SALAMONE**  
**SCHENECTADY, NY 12301 (US)**

(73) Assignee: **General Electric Company**(21) Appl. No.: **09/774,530**